IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with <u>underlining</u> and deleted text with <u>strikethrough</u>. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1-12 in accordance with the following:

1. (CURRENTLY AMENDED) A RAID controller, which accesses an access request area on logical volumes distributed and stored on a plurality of physical disks according to a disk access request from a host device, comprising:

a plurality of physical disk groups which are in-charge of storing different logical volumes, respectively where wherein one logical volume is distributed to a plurality of physical disks to form a plurality of redundant groups;

a plurality of management modules which are in-charge of plurality of managing said

plurality of redundant groups-respectively included on said plurality of physical disks, and issuing
a logical format processing request for logical formatting of each said disk access request area
of each of said logical volume distributed to said plurality of physical disks forming said
redundant groups, by referring to one of a plurality of management tabletables for managing
progress information of the said logical format processing of each of said logical volume
distributed to said plurality of physical disks forming said redundant groups; and

a plurality of lower layer modules for accessing said one of physical diskdisks according to the processing of said logical format processing request of said plurality of management modules,

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wherein each said management module hascomprising:

plurality of said management table tables for being in charge of managing said plurality of redundant groups; and

a queue for queuing said disk access request, and

wherein each said management module, according to said disk access request, judges whether all theeach of said access request areas havearea has been logically formatted referring to one of said plurality of said management tabletables, and when judged as formatted, requests each of said disk access request to said plurality of lower layer module modules, and when not formatted, issues a logical format processing request and queues said disk access request in said queue, and

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wherein when no disk access request exists in said queue, searches an unformatted area from one of said plurality of said management tabletables, and issues a logical format processing request to plurality of lower layer modules.

- 2. (CURRENTLY AMENDED) The RAID controller according to Claimclaim 1, wherein, when one of said plurality of management module modules has an abnormality, another one of said plurality of management module executes the said logical format processing for each said disk access request area of each of said logical volume, distributed to said plurality of physical disks forming said redundant groups managed of the physical disk group charged by said by one of said plurality of management modules.
- 3. (CURRENTLY AMENDED) The RAID controller according to Claimclaim 1, further comprising a RAID management module for restoring said management table of theone of said plurality of physical disk groupgroups which one of said plurality of management module is incharge of modules manages in a management module of said plurality of management module of management module using a management table of another of said plurality of management modules when the one of said plurality of management modules has an abnormality. other than said one logical format management module using a management table of another management module when said one management module has an abnormality.
- 4. (CURRENTLY AMENDED) The RAID controller according to Claimclaim 3, wherein said RAID management module executes said restoration referring to a configuration table where thea RAID configuration is stored.
- 5. (CURRENTLY AMENDED) The RAID controller according to Claimclaim 1, wherein said one of said plurality of management tabletables manages the progress status of said logical volume in logical format processing units by bit maps.
- 6. (CURRENTLY AMENDED) The RAID controller according to Claim 1claim 5, wherein said one of said plurality of management modules, updates said one of plurality of management tabletables for managing said progress information at the completion of execution of said logical format processing request from said lower layer module, and searches said queue at the completion of execution of said logical format processing request, and issues said disk

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access request, for which said logical format <u>processing request</u> has completed, to said lower layer module.

7. (CURRENTLY AMENDED) A RAID control method for accessing an access request area of a plurality of physical disk groups which are in charge of including different logical volumes, respectively where one logical volume is distributed to a plurality of physical disks to form redundant groups, according to a disk access request from a host device, comprising:

a step of issuing a logical format processing request for the logical format of each area of said logical volume referring to a management table for managing the progress information of the logical format processing of said logical volume;

a step of judging whether all of said access request areas have been logically formatted er not by referring to said management table according to said disk access request;

a step of requesting said disk access request to a lower layer module which accesses said physical disk when judged as formatted;

a step of issuing said logical format processing request and queuing said disk access request to a queue when not formatted; and

a step of updating said management table having redundancy according to thea completion notice of the processing of said logical format processing from said lower layer module.

- 8. (CURRENTLY AMENDED) The RAID control method according to Claimclaim 7, further comprising a step of executing a said logical formatting of said physical disk groupdisks, which wherein one logical format management module is in charged of by manages another logical format management module when said one logical format management module has an abnormality.
- 9. (CURRENTLY AMENDED) The RAID control method according to Claimclaim 7, further comprising a step of restoring the management table of the physical disk groupsaid physical disks, which wherein one logical format management module is in-charge of manages another in a logical format management module other than said one logical format management module when said one logical format management module has an abnormality.
 - 10. (CURRENTLY AMENDED) The RAID control method according to Claimclaim 9,



wherein said restoration step <u>restoring</u> comprises a step of executing said <u>restoration</u> <u>restoring</u> <u>by</u> referring to a configuration table where <u>thea</u> RAID configuration is described.

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- 11. (CURRENTLY AMENDED) The RAID control method according to Claimclaim 7, wherein said management table manages the progress status of said logical volume in logical format processing units by bit maps.
- 12. (CURRENTLY AMENDED) The RAID control method according to Claimclaim 7, further comprising:

a step of searching said queue at the completion of execution of said logical format processing request; and

a step of issuing said disk access request for which said logical format has completed to said lower layer module.